South Carolina Universities Research and Education Foundation (SCUREF)

Program Description

Incorporated in 1998, the South Carolina Universities Research and Education Foundation is a consortium composed of the four major research institutions in South Carolina: Clemson University, the Medical University of South Carolina, South Carolina State University, and the University of South Carolina. The primary goal of the South Carolina Universities Research and Education Foundation is to enhance educational programs and research opportunities of the participating universities through collaboration. The consortium utilizes these universities to manage its research and education programs. One of these programs is the Department of Energy Nuclear Engineering and Health Physics Fellowship/Scholarship (NE/HP) graduate program. The program is managed through the Medical University of South Carolina Office of Special Programs (MUSC/OSP). Los Alamos National Laboratory is one of nine participating centers for the Nuclear Energy and Health Physics program. FY01 was the third year the Laboratory has participated in the program.

For more information on SCUREF, visit http://hubcap.clemson.edu/SCUREF/.

Performance Objective and Milestones

Through its participation in the Nuclear Energy and Health Physics Fellowship/Scholarship graduate program, the Laboratory supports its mission while focusing on the development of a future work force in Critical Skills Areas #1 Nuclear Design & Evaluation, #2 Physics, and #11 Hazard-Ranked Facility Operations & Security.

Highlights of this Year's Accomplishments

Two SCUREF fellows were recruited to the Laboratory this year; each served a continuous twelve-week period conducting research.

One Fellow was Brian Miller, Ph.D candidate in nuclear engineering, University of New Mexico, with a 3.9/4.0 GPA. FY01 research was performed in the Computer and Computational Sciences Division under the tutelage of Dr. Raymond Alcouffe, CCS-4 Transport Methods. The research assignment was to develop a first collision source method that included determining the eigenvalue of a fissioning system. The participant, a veteran of the US Navy, served previous internships at Argonne National Laboratory and Brookhaven National Laboratory. This was the participant's second NE/HP summer practicum at Los Alamos.

The other Fellow, Jeffrey King, Ph.D candidate in nuclear engineering, University of New Mexico, had a 4.0/4.0 GPA. FY01 research was performed in the Decision Applications Division under the tutelage of Dr. Laurie Waters, Nuclear Systems Design and Analysis. The research

involved performing physics analysis using the MCNPX code in support of the AAA (Advanced Accelerator Applications) Program. The participant served a previous internship at the Savannah River Operations Office.